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HAMILTON-WENTWORTH REGION

ENVIRONMENTALLY SENSITIVE AREAS

FIELD STUDIES REPORT ON AREA NO. 25

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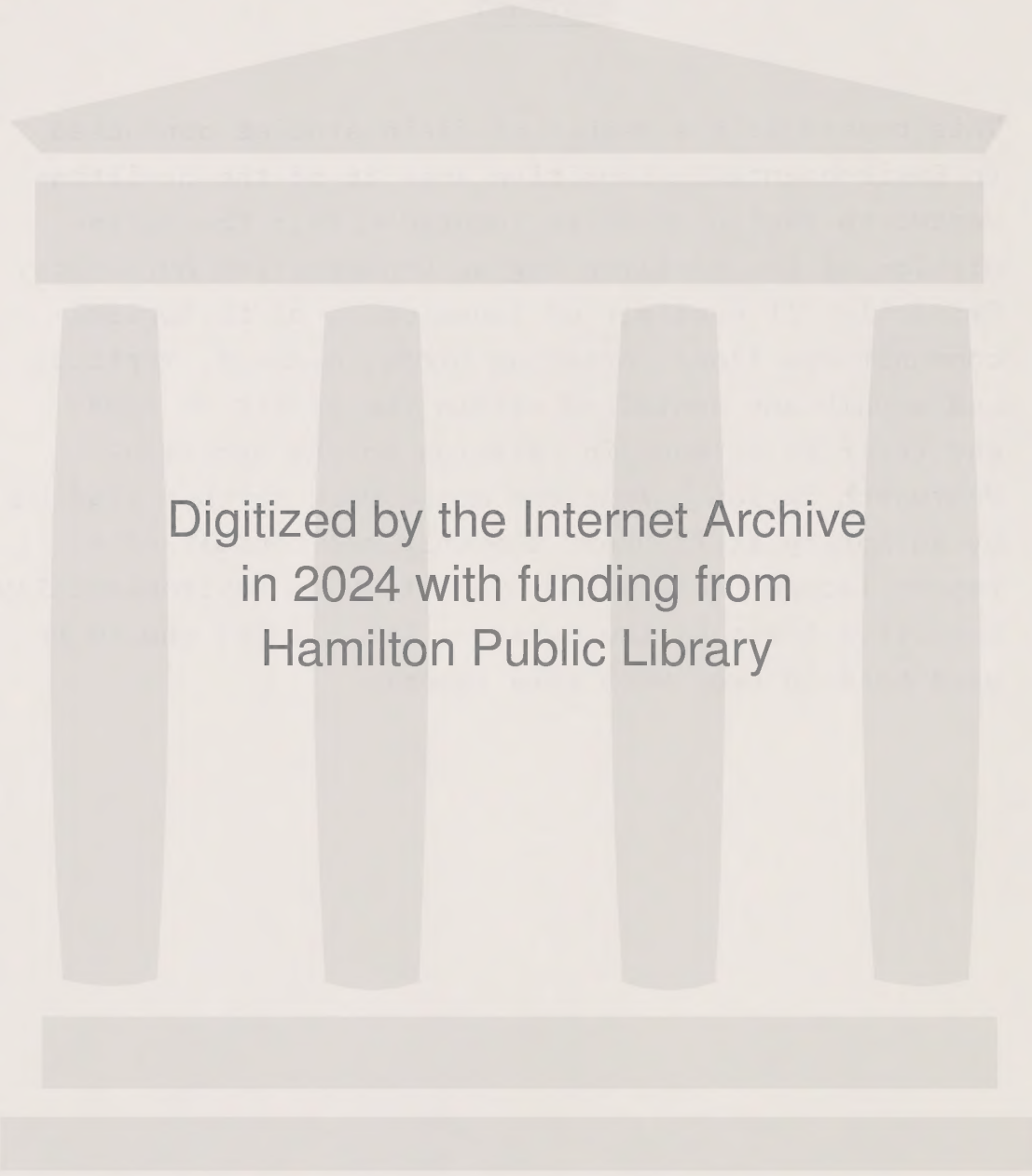
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ABSTRACT

This report is the result of field studies conducted in Environmentally Sensitive Area 25 of the Hamilton-Wentworth Region which is located within the jurisdiction of the Hamilton Region Conservation Authority. Primarily, it consists of inventories of biological communities, flora, breeding birds, mammals, reptiles and amphibians contained within the Sensitive Area and their importance in relation to the Hamilton-Wentworth Region. Fourteen areas were further studied by Authority staff where the original consultant's report lacked field data. The study on Environmentally Sensitive Areas by Ecologistics Ltd., 1976, should be used hand in hand with this report.



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INTRODUCTION

A total of 21 plots were mapped and subsequently surveyed for composition of plants, birds, reptiles and amphibians in the Redhill Creek Valley. They were chosen at random from aerial photographs and have some form of boundary - creek, road or field, etc. They are also areas having even growth of vegetation throughout the plot so they could easily be classified (see individual plot sheets). In other words, one plot would not contain forest with shrubs and open areas as a classification would then be difficult.

Contents of the survey are in order as follows:

1. Vegetation (a) Plot Sheets
(b) Complete list of plants known to occur in the Redhill Creek valley
2. Complete list of breeding birds and locations in the Redhill Creek valley.
3. Complete list of Mammals, Reptiles and Amphibians and locations in the Redhill Creek valley.
4. Maps showing locations of plots.

"A" plots are those found in the upper end of the valley known as King's Forest and adjacent areas. "B" plots are those found in the lower part of the valley of Redhill Creek and its tributaries.

From the field work, it was clear that the area has been highly abused by human activities; land filling, extensive trails (most were not needed), garbage dumping, past land clearing, and water pollution in the creek. Also, a large number of children from neighbouring residential areas use the valley as a playing area and the destruction of trees, etc., is great.

Dates of censusing were from June 1 to July 1, 1976. The majority of nesting of birds occurs in June which is also when most plants are flowering. Therefore, an accurate and complete census was obtained.

Size of plots ranged from approximately 4 acres (B-6) to approximately 19 acres (A-1). Plots were transected on foot as many times as required to adequately cover the area.

Recommendations:

A general recommendation for the valley would be to allow all existing forests to remain as they are and give other vegetation in various stages of growth a chance to become forested. In time, the result would be a continuous band of mature forest through the east end of Hamilton. Any development if really needed should be restricted to non-vegetated fields already adjacent to existing roads.

NAME: Redhill Creek Valley

CONSERVATION AUTHORITY: Hamilton Region

VEGETATION

Plot sites were first divided into the following, determined by the Redhill Creek Flood Plain Mapping (Dillon, March/75)

Upland: The soils of these sites are well drained and remain saturated for less than 6 months of the year. The topography may vary from flat to irregular sloping.

Floodplain: These sites are located in lowlands adjacent to watercourses. Their soils exhibit variable drainage characteristics but they are usually quite fertile. The land is normally inundated and the soil enriched on a varying number of occasions each year.

The vegetation was divided into 3 recognizable layers (if present):

Trees: Any growth above the height of 10-15 feet (eg, Maples, Oaks)

Shrubs: Plants with woody stems less than 10-15 feet (eg, Red Osier Dogwood)

Herbs: ground plants without woody stems (eg. all wildflowers, ferns, etc.).

The above 3 layers were further described as to:

Growth Density:

Scattered: Less than 33% crown coverage

Open: 33 to 66% crown coverage

Closed: over 66% crown coverage

(Crown coverage refers to the widest horizontal width of individual plants that occupies the vegetation layer.)

A Growth Maturity description was given to trees in plots classed as forest:

Young: where the majority of trees are small and best described as saplings.

Immature: where the majority of trees are quite large but are still growing.

Mature: where the majority of trees have reached their peak and growth is slowing.

Species Makeup in the Tree Layer is given in percentages. Percentages are actually the amount of crown coverage exhibited by the species, not necessarily by the numbers of individual trees present. Eg, a single full size Red Oak has more crown coverage (and significance) than 10 Sugar Maple saplings so therefore would have a higher percentage. In the Shrub Layer and Herb Layer the Species Makeup is given as:

Conspicuous: several or a great many individual plants found throughout or in one part of the plot.

Inconspicuous: a single plant or a very few individual plants found throughout or in one part of the plot.

In the transect sheets underlined species are those considered rare or unusual in the Hamilton-Wentworth Region by the following:

1. Ecologistics Ltd., 1976 - Hamilton-Wentworth Region Environmentally Sensitive Areas Study
2. Area Naturalists familiar with the Redhill Creek Valley.
3. Argus and White, 1975 - A Preliminary List of Rare Plants in Ontario (Ottawa)

Hamilton-Wentworth Region
 Environmentally Sensitive Areas Study
 - Field Studies

AREA NO. 25

Vegetation Plot A-1 Classification: Upland, Closed Forest
 (Immature)

<u>Trees (Closed)</u>		<u>Shrub Layer (Closed)</u>	<u>Herb Layer (Open)</u>
Sugar Maple	45%	<u>Conspicuous</u>	<u>Conspicuous</u>
Beech	25%		
Hornbeam	15%	Choke Cherry	Herb-robert
American White Birch	10%	Sugar Maple	Woodland Jack-in-
	95%	American Basswood	the-Pulpit
		Common Elderberry	White Trillium
Eastern Hemlock		Running Strawberry-	Early Meadow-rue
American Basswood		Bush	May-apple
Red Oak			Virginia Waterleaf
Black Ash		<u>Inconspicuous</u>	
Hawthorns sp.			<u>Inconspicuous</u>
American Elm	5%	White Ash	
	100%	Flowering Raspberry	False Solomon's
		American Elm	Seal
		Pasture Gooseberry	Common Strawberry
			Cleavers
			Wild Lily-of-the-
			Valley
			Canada Violet
			Winter cress
			Common Plantain
			Wild Geranium
			Horsetails sp.
			Ferns sp.

Censused on June 3/76

Vegetation Plot A-2 Classification: Upland, Closed Forest (Mature)

<u>Trees (Closed)</u>		<u>Shrub Layer (Open)</u>	<u>Herb Layer (Open)</u>
Hawthorns sp.	80%	<u>Conspicuous</u>	<u>Conspicuous</u>
American Elm			
Staghorn Sumac		Red Raspberry	Grasses sp.
Black Cherry	10%	Black Raspberry	Goldenrods sp.
Domestic Apple		Gray Dogwood	Wild Carrot
Domestic Pear	10%	Hawthorns sp.	Black Medick
	100%	American Elm	
		Wild Grape sp.	<u>Inconspicuous</u>
		Poison-ivy	
		<u>Inconspicuous</u>	
		Staghorn Sumac	Dame's Rockets
		White Ash	Burdock sp.
		Tartarian Honeysuckle	Herb-robert
		Alternate-leaf	Common Strawberry
		Dogwood	

Censused on June 4/76

Hamilton-Wentworth Region
 Environmentally Sensitive Areas Study
 - Field Studies

AREA NO. 25

Vegetation Plot A-3 Classification: Floodplain, Open Forest
 (Immature)

<u>Trees (Open)</u>		<u>Shrub Layer (Open)</u>	<u>Herb Layer (Open)</u>
Sugar Maple	80%	<u>Conspicuous</u>	<u>Conspicuous</u>
White Ash			
Black Ash	10%	Choke Cherry	Common Blue Violet
White Pine		Sugar Maple	Canada Violet
Black Cherry		Alternate-leaf Dogwood	Virginia Waterleaf
American Basswood		Common Elderberry	Cleavers
American Elm		Red Elderberry	Herb-robert
Hawthorns sp.			Celandine
Staghorn Sumac		<u>Inconspicuous</u>	Jewelweed
Hornbeam	10%		Early Meadow-rue
	100%	Flowering Raspberry	White Baneberry
		Red Raspberry	
		Black Raspberry	<u>Inconspicuous</u>
		Black Locust	
		American Basswood	False Solomon's Seal
		Pasture Gooseberry	Burdock sp.
		Tartarian Honeysuckle	Woodland Jack-in-the Pulpit
		Poison-ivy	Common Strawberry
		Virginia Creeper	Columbine
			Nightshade
			Wild Geranium
			Wild Ginger
			Sharp-lobed
			Hepatica
			Dame's rockets

Censused on June 4, 1976

Vegetation Plot A-4 Classification: Upland, Open Scrub

<u>Trees (absent)</u>	<u>Shrub Layer (Open)</u>	<u>Herb Layer (Closed)</u>
	<u>Conspicuous</u>	<u>Conspicuous</u>
	Staghorn Sumac	Common Blue Violet
	Blackberry sp.	Grasses sp.
	Red Raspberry	Red Clover
	Black Raspberry	White Clover
		King Devil
	<u>Inconspicuous</u>	Orange Hawkweed
	Choke Cherry	Burdock sp.
	Hawthorns sp.	Goldenrods sp.
	Smooth Sumac	Teasel
	White Ash	Black Medick
	Bladdernut	
	Common Lilac	<u>Inconspicuous</u>
		Common Buttercup
		Columbine
		Common Strawberry
		Herb-robert

Censused on June 3/76

Hamilton-Wentworth Region
 Environmentally Sensitive Areas Study
 - Field Studies

AREA NO. 25

Vegetation Plot A-5 Classification: Upland, Closed, Plantation
 Forest (Mature)

<u>Trees (Closed)</u>		<u>Shrub Layer (Scattered)</u>	<u>Herb Layer (Open)</u>
Red Pine	70%	<u>Conspicuous</u>	<u>Conspicuous</u>
White Spruce	15%		
White Oak		Common Lilac	Nightshade
Red Oak	10%	Ashleaf Maple	Burdock sp.
White Pine		Red Oak	Goldenrods sp.
Black Cherry		Common Elderberry	Common Buttercup
Northern White		Choke Cherry	Wild Carrot
Cedar			Herb-robert
Sugar Maple		<u>Inconspicuous</u>	Grasses sp.
Beech			
Common Lilac		White Ash	<u>Inconspicuous</u>
Jack Pine	5%	Sugar Maple	
	100%	Hawthorns sp.	Wintercress
		Alternate-leaf Dogwood	Common Blue Violet
			Ferns sp.
			Purslane Speedwell

Censused on June 3/76

Vegetation Plot A-6 Classification: Upland, Closed Forest (Immature)

<u>Trees (Closed)</u>		<u>Shrub Layer (Scattered)</u>	<u>Herb Layer (Open)</u>
Sugar Maple	80%	<u>Conspicuous</u>	<u>Conspicuous</u>
Eastern Hemlock	5%		
White Ash	5%	American Elm	Burdock sp.
Beech	5%	White Ash	Woodland Jack-in-
	95%	Beech	the-Pulpit
American Basswood		Sugar Maple	White Trillium
Black Ash		Running Strawberry-Bush	False Solomon's Seal
Northern White Cedar		Flowering Raspberry	Herb-robert
Horse Chestnut			Bloodroot
Alternate-leaf Dogwood		<u>Inconspicuous</u>	Ferns sp.
American White Birch			Early Meadow-rue
Black Walnut		Alternate leaf Dogwood	King Devil
Black Cherry		Hawthorns sp.	Mosses sp.
White Pine	5%	Choke Cherry	Blue phlox
Yellow Birch		Mountain Maple	
	100%	Red Elderberry	<u>Inconspicuous</u>
		Staghorn Sumac	
			Canada Anemone
			Columbine
			Canada Violet
			Sharp-lobed Hepatica
			Common Blue Violet
			Foamflower
			Wintercress
			Wild Geranium
			Celandine
			Narrow-leaved
			Cattail
			Cleavers

Censused on June 1, 1976

Hamilton-Wentworth Region
 Environmentally Sensitive Areas Study
 - Field Studies

AREA NO. 25

Vegetation Plot A-7 Classification: Upland, Closed, Plantation
 Forest (Mature)

<u>Trees (Closed)</u>		<u>Shrub Layer (Closed)</u>	<u>Herb Layer (Open)</u>
Red Pine	70%	<u>Conspicuous</u>	<u>Conspicuous</u>
White Spruce	15%		
White Pine	10%	Choke Cherry	Burdock sp.
White Ash		Slippery Elm	Grasses sp.
Norway Spruce		Common Elderberry	White Baneberry
Hawthorns sp.		Poison-ivy	Jewelweed
Black Cherry		Flowering Raspberry	White Clover
Staghorn Sumac			Common Strawberry
Quaking Aspen		<u>Inconspicuous</u>	Early Meadow-rue
Jack Pine	5%		
	100%	Black Ash	<u>Inconspicuous</u>
		Sugar Maple	
		Red Oak	Herb-robert
		Bur Oak	Horsetails
		Hawthorns sp.	Common Blue Violet
		American Basswood	Ferns sp.
		Tartarian Honeysuckle	False Solomon's Seal
		Red Elderberry	Winter Cress
		Round-leaf Dogwood	Woodland Jack-in
		Red Raspberry	the-Pulpit
		Golden Currant	Dame's rockets
			Common Plantain

Censused June 1/76

Vegetation Plot A-8 Classification: Upland, Closed Scrub

<u>Trees (Scattered)</u>	<u>Shrub</u>		<u>Herb Layer (Open)</u>
Domestic Apple	Gray Dogwood	30%	<u>Conspicuous</u>
Sweet Cherry	Hawthorns sp.	30%	
White Ash	Willows	20%	Watercress
Black Willow	Staghorn Sumac	10%	Narrow-leaved cattail
Hawthorns sp.	White Ash		Goldenrods sp.
	Red Raspberry		Burdock sp.
	Wild Grape		Grasses sp.
	Poison-ivy	10%	Jewelweed
		100%	
			<u>Inconspicuous</u>
			Nightshade
			Common Strawberry
			King Devil
			Wintercress

Censused on June 4/76

Hamilton-Wentworth Region
 Environmentally Sensitive Areas Study
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AREA NO. 25

Vegetation Plot A-9 Classification: Upland, Closed Forest
 (Immature)

<u>Trees (Closed)</u>		<u>Shrub Layer (Scattered)</u>	<u>Herb Layer (Open)</u>
Sugar Maple	65%	<u>Conspicuous</u>	<u>Conspicuous</u>
American Basswood	10%	American Basswood	Wild Ginger
White Ash	10%	White Ash	Winter Cress
Eastern Hemlock	5%	Flowering Raspberry	Burdock sp.
Red Oak	90%	Alternate-leaf Dogwood	False Solomon's Seal
American Elm		Ash-leaf Maple	May apple
Big-toothed Aspen			Woodland Jack-in-
Beech		<u>Inconspicuous</u>	the-Pulpit
Silver Maple		Willows sp.	Ferns sp.
Alternate-leaf		Beech	Mosses sp.
Dogwood		Quaking Aspen	King Devil
Ashleaf Maple	10%	Hawthorns sp.	Blue Phlox
	<u>100%</u>	Red Elderberry	<u>Inconspicuous</u>
		Staghorn Sumac	Narrow-leaved Cattail
		Choke Cherry	Wild Geranium
		Tartarian Honeysuckle	Herb-robert
		Virginia Creeper	Canada Violet
		Red Raspberry	Columbine
		Poison-ivy	Nightshade
			Dame's rocket
			Cleavers

Censused on June 1/76

Vegetation Plot A-10 Classification: Upland, Open Forest
 (Immature)

<u>Trees (Open)</u>		<u>Shrubs (Closed)</u>	<u>Herb Layer (Open)</u>
Sugar Maple	40%	<u>Conspicuous</u>	<u>Conspicuous</u>
American Basswood	10%	Alternate-leaf Dogwood	Nightshade
Black Cherry	10%	Red Raspberry	Herb-robert
White Ash	10%	White Ash	False Solomon's Seal
American Elm	10%	Common Elderberry	Wild Geranium
	<u>80%</u>	American Basswood	Goldenrods sp.
Alternate-leaf		Choke Cherry	Burdock sp.
Dogwood		Poison-ivy	
Staghorn Sumac		Virginia Creeper	<u>Inconspicuous</u>
Hawthorns	20%	<u>Inconspicuous</u>	Dame's rockets
	<u>100%</u>	Red Elderberry	Early Meadow-rue
		Flowering Raspberry	Forget-me-not
		Wild Grape sp.	Common Fleabane
		Gray Dogwood	Common Strawberry
			Common Plantain
			Canada Violet
			Virginia Waterleaf
			May apple

Censused on June 3/76

Hamilton-Wentworth Region
 Environmentally Sensitive Areas Study
 - Field Studies

AREA NO. 25

Vegetation Plot A-11 Classification: Upland, Closed, Forest
 (Mature)

<u>Trees (Closed)</u>		<u>Shrub Layer (Scattered)</u>	<u>Herb Layer (Open)</u>
Sugar Maple	85%	Flowering Dogwood	<u>Conspicuous</u>
American Elm		Sugar Maple	
(mostly dead)	10%	White Ash	Herb-robert
	95%	Running Strawberry Bush	Great Burdock
Black Cherry			Early Meadow-rue
White Pine			Wild Ginger
American White Birch			May apple
Black Ash	5%		Woodland Jack-in-
	100%		the Pulpit
			Foamflower
			<u>Inconspicuous</u>
			Nightshade
			Wintercress
			Common Strawberry
			Evening Lychnis
			Dame's rocket
			Sharp-lobed Hepatica
			Purple flowering
			Raspberry

Censused on June 3/76

Vegetation Plot B-1 Classification: Floodplain, Open Forest
 (Immature)

<u>Trees (Open)</u>		<u>Shrub Layer (Open)</u>	<u>Herb Layer (Closed)</u>
Black Walnut	30%	<u>Conspicuous</u>	<u>Conspicuous</u>
Ashleaf Maple	30%		
American Elm	10%	Wild Grape sp.	Water Plantain
Hawthorns sp.	10%	Ashleaf Maple	Ox-eye Daisy
Sugar Maple	10%	Hawthorns sp.	Early Meadow-rue
	90%	Staghorn Sumac	White Avens
American Basswood		Virginia Creeper	Enchanter's Nightshade
Willows sp.		Common Elderberry	Nightshade
American White Birch			
Hornbeam	10%	<u>Inconspicuous</u>	<u>Inconspicuous</u>
	100%		
		Black Raspberry	Yellow Sweet C
		Red Raspberry	Black Med
		Choke Cherry	Cow Vetch
		Red Osier Dogwood	Red Clover
		Tartarian H. nysusuckle	Wild Carrot
		Common Cottonwood	Viper's Bugloss
		American Crabapple	Rough-fruited
		Willow sp.	Cinquefoil
		Gray Dogwood	Goldenrods sp.
		White Mulberry	Common Fleabane
			Common Milkweed
			Burdock sp.
			Wild Geranium
			Herb-robert
			Teasle
			Field Pennycress
			C. sp.
			ristle sp.
			Canada Anem
			Common St. Johnswart
			Curled Dock
			Common Buttercup
			C. sp.

Vegetation Plot B-2 Classification. Upland, Open Forest (Young)

Trees (open)

Conspicuous

Black Cherry
Sweet Cherry
White Pine
Sugar Maple
Hawthorns sp.
Hornbeam
Beech
Black Walnut
Red Oak

Inconspicuous

White Oak
Bur Oak
American Elm
Shagbark Hickory

Shrub Layer (Open)

Conspicuous

Gray Dogwood
Hawthorns sp.
Northern Prickly Ash
Choke Cherry
White Ash
Witch Hazel
Round-leaf Dogwood
Virginia Creeper
Wild Grape sp.

Inconspicuous

American Basswood
Sugar Maple
Staghorn Sumac
Pasture Gooseberry
Running Strawberry-
Bush
Red Raspberry
Tartarian Honeysuckle
European Gooseberry
Poison-ivy

Herb Layer (Open)

Conspicuous

Wild Carrot
Rough-fruited
Cinquefoil
White Avens
Rough Avens
Virginia Waterleaf
May-apple
Common Blue Violet
White Trillium
Jewelweed
Wild Geranium
Common Fleabane
White Clover
Goldenrods sp.
Grasses sp.

Inconspicuous

Common St. John's
Wart
Ox-eye Daisy
Common Dandelion
Common Milkweed
Smaller Hop Clover
Red Clover
Yellow Sweet Clover
Burdock sp.
Common Strawberry
False Solomon's
Seal
King Devil
Common Plantain
Viper's Bugloss
Thistle sp.
Teasel

Censused on June 24/76

Hamilton-Wentworth Region
 Environmentally Sensitive Areas Study
 - Field Studies

AREA NO. 25

Vegetation Plot B-3 Classification: Upland, Closed Forest (Immature)

<u>Trees (Closed)</u>		<u>Shrub Layer (Scattered)</u>	<u>Herb Layer (open)</u>
Sugar Maple	90%	<u>Conspicuous</u>	<u>Conspicuous</u>
Red Oak			
White Pine		Red Oak	Wild Geranium
American Elm		Choke Cherry	White Avens
Hornbeam		Gray Dogwood	Rough Avens
Black Cherry		White Ash	Early Meadow-rue
Beech	10%	Shagbark Hickory	False Solomon's Seal
	100%	Alternate Leaf Dogwood	Common Blue Violet
		Maple-leaf Viburnum	Wild Ginger
		<u>Inconspicuous</u>	May-apple
		American Elm	White Trillium
		Red Raspberry	Virginia Waterleaf
		Pasture Gooseberry	<u>Inconspicuous</u>
		European Gooseberry	Wild Carrot
		Hawthorns sp.	Rough-fruited Cinquefoil
		Northern prickly ash	Goldenrods sp.
		Running strawberry bush	Viper's Bugloss
		Wild Grape sp.	Common Fleabane
		American Basswood	Herb-robert
		Poison-ivy	Burdock sp.
			Grasses sp.
			Jewelweed
			Turning Glory sp.
			Thistle sp.
			Yellow wood sorrel
			Wild Lettuce

Censused on June 17/76

Vegetation Plot B-4 Classification: Upland, Closed Forest (Immature)

<u>Trees (Closed)</u>		<u>Shrub Layer (Scattered)</u>	<u>Herb Layer (Open)</u>
White Ash		American Elm	Burdock
Basswood		Wild Grape sp.	Common Buttercup
Hawthorns sp.		Tatarian Honeysuckle	Wild Carrot
Black Cherry		Multiflora Rose	Common Plantain
Ashleaf Maple		Choke Cherry	Motherwort
Willows sp.		Staghorn Sumac	Rough Avens
White Spruce		Virginia Creeper	Common St. John's
Sugar Maple		Black Raspberry	Wheat
Sweet Cherry		Lilac	Dandelion's rockets
Domestic Apple		White Cedar	Nightshade
Black Walnut		Red Oak	Ox-eye Daisy
			Common Fleabane
			Rough-fruited
			Cinquefoil
			Common Blue Violet
			False Solomon's
			Seal
			Red Clover
			Honeywort
			Goldenrod sp.
			Grasses sp.
			Dandelion sp.

Censused on June 17/76

Hamilton-Wentworth Region

Environmentally Sensitive Areas Study

Field Studies

AREA NO. 25

Vegetation Plot B-5

Classification: Floodplain, Closed Scrub

Trees (Scattered)

Ashleaf Maple
 Black Willow
 Black Walnut
 American Elm
 Sycamore
 Common Cottonwood

Shrub Layer (Closed)Conspicuous

Ashleaf Maple
 Wild Grape sp.
 Black Raspberry
 Hawthorn sp.
 Virginia Creeper

Inconspicuous

Pasture Gooseberry
 American Elm
 Staghorn Sumac
 Poison-ivy

Herb Layer (Closed)Conspicuous

Dame's rocket
 Jewelweed
 Goldenrods sp.
 Burdock sp.
 Canada Anemone
 Wild Carrot

Inconspicuous

Teasel
 Common Blue Violet
 Wild Geranium
 Grasses sp.
 White Avens
 Motherwort
 Common Buttercup
 Rough Avens
 Thistle sp.
 Dandelions sp.

Censused on June 18/76

Vegetation Plot B-6

Classification: Floodplain, Open Forest (Immature)

Trees (Open)

Sugar Maple 50%
 Willows sp. 10%
 Ashleaf Maple 10%
 Black Walnut 10%
 80%
 Black Cherry
 Hornbeam
 Common Cottonwood
 American Elm
 Red Oak
 Basswood 20%
 100%

Shrub Layer (open)Conspicuous

Ashleaf Maple
 Black Raspberry
 Staghorn Sumac
 Choke Cherry
 Silver Maple
 Wild Grape sp.
 Flowering Raspberry

Inconspicuous

Running Strawberry-bush
 Basswood
 Common Cottonwood
 Red Elderberry
 Pasture Gooseberry
 Red Raspberry
 Gray Dogwood
 Multiflora Rose
 Virginia Creeper
 Poison-ivy

Herb Layer (Closed)Conspicuous

Goldenrods sp.
 Burdock sp.
 Dame's rocket
 False Solomon's Seal
 Jewelweed
 White Trillium
 Thistle sp.

Inconspicuous

Dandelions sp.
 Grasses sp.
 Wild Carrot
 Herb-robert
 Early Meadow-rue
 White Aven
 Nightshade
 Common Plantain
 Common Blue Violet
 Common Fleabane
 Woodland Jack-in-the Pulpit
 Wintercress

Censuses on June 13/76

Hamilton-Wentworth Region

Environmentally Sensitive Areas Study

- Field Studies

AREA NO. 25

Vegetation Plot B-7 Classification: Floodplain, Open, Forest
(Immature)Trees (Open)

Willow sp.	25%
Ashleaf Maple	15%
Common Cottonwood	15%
Sugar Maple	15%
Red Oak	10%
	<u>80%</u>
Bur Oak	
Black Locust	
American Basswood	
Hawthorns sp.	
Black Cherry	
Shagbark Hickory	
American Elm	
Sweet Cherry	
Black Walnut	20%
	<u>100%</u>

Shrub Layer (Closed)Conspicuous

Choke Cherry
Wild Grape Sp.
Hawthorns sp.
American Basswood
American Elm
Ashleaf Maple
Common Cottonwood
Poison-ivy
Virginia Creeper

Inconspicuous

Black Locust
Gray Dogwood
Pasture Gooseberry
White Ash
Running Strawberry-bush
Red Raspberry
Staghorn Sumac

Herb Layer (Closed)Conspicuous

Common Plantain
Early Meadow-rue
Burdock sp.
Dame's rocket
False Solomon's
Seal
Jewelweed
Black Mustard
Grasses sp.
Nightshade
Virginia Waterleaf
Goldenrods sp.

Honewort
Curled Dock
Cow Parsnip
Celandine

Inconspicuous

Red Clover
White Clover
Ox-eye Daisy
Wild Carrot
Spotted St. John's
Wort
Cow Vetch
Rough-fruited
Cinquefoil
King Devil
Common Blue Violet
Wintercress
Wild Geranium
Dandelions sp.
Smaller Hop Clover
Common Buttercup
Intermediate
Dogbane
Common Strawberry
Common Morning Glory
Ivy-leaved Morning
Glory

Censused on June 18/76

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AREA NO. 25

Vegetation Plot B-8 Classification: Floodplain, Open, Forest (Immature)

<u>Trees (Open)</u>		<u>Shrub Layer (Open)</u>	<u>Herb Layer (Closed)</u>
Ashleaf Maple	70%	<u>Conspicuous</u>	<u>Conspicuous</u>
Willow sp.	20%		
	90%	Ashleaf Maple	Dame's rockets
Hawthorns sp.		Wild Grape sp.	Burdock sp.
Common Cottonwood	10%	Virginia Creeper	Grasses sp.
	100%	<u>Inconspicuous</u>	Stinging Nettle
			Cow Parsnip
		American Elm	Nightshade
		Pasture Gooseberry	Black Mustard
			Curled Dock
			Water Pennywort
			<u>Inconspicuous</u>
			Goldenrod sp.
			Jewelweed
			Common Plantain

Censused on June 24/76

Vegetation Plot B-9 Classification: Floodplain, Closed Forest (Immature)

<u>Trees (Closed)</u>		<u>Shrub Layer (Open)</u>	<u>Herb Layer (Open)</u>
Sugar Maple	50%	<u>Conspicuous</u>	<u>Conspicuous</u>
Ashleaf Maple	10%		
Hornbeam	10%	Wild Grape sp.	Goldenrods sp.
Beech	10%	Virginia Creeper	Teasel
	80%	Choke Cherry	Enchanter's Nightshade
American Basswood		White Ash	Rough Aven
White Pine		Beech	Burdock
Red Oak		Sugar Maple	Nightshade
Shagbark Hickory		Running Strawberry-bush	Virginia Waterleaf
Black Walnut		<u>Inconspicuous</u>	Woodland Jack-in-
Tamarack			the Pulpit
White Spruce		American Elm	Wild Geranium
Red Pine		American Basswood	Schreber's Aster
Black Cherry		Gray Dogwood	False Solomon's Seal
Sweet Cherry	20%	Honey Locust	May-apple
	100%	Hawthorns sp.	Rough-fruited
		Black Raspberry	Cinquefoil
		Pasture Gooseberry	Black Medick
		Witch Hazel	<u>Inconspicuous</u>
		Shagbark Hickory	Ox-eye Daisy
		Red Raspberry	Common Strawberry
			Wild Carrot
			Dandelion sp.
			Yellow Sweet Clover
			Common St. John's Wort
			Common Buttercup
			Red Clover
			Creeping Bellflower
			Thistle sp.
			Dame's rockets
			Jewelweed
			Yellow Wood Sorrel
			Common Blue Violet
			Lady Fern
			White Aven
			Deptford Pink
			Intermediate Dogbane
			Agrimony sp.
			Herb-robert

Censused on July 1/76

Vegetation Plot B-10 Classification: Upland, Open, Forest (Immature)

<u>Trees (Open)</u>		<u>Shrub Layer (Open)</u>	<u>Herb Layer (Open)</u>
Sugar Maple	50%	<u>Conspicuous</u>	<u>Conspicuous</u>
Red Oak	10%		
Hornbeam	10%	White Ash	False Solomon's
Shagbark Hickory	10%	Shagbark Hickory	Seal
	80%	Gray Dogwood	Enchanter's Night-
Black Cherry		Red Maple	shade
White Oak			Herb-robert
Beech		<u>Inconspicuous</u>	
White Ash			<u>Inconspicuous</u>
Hawthorns sp.	20%	Beech	
	100%	European Gooseberry	Early Meadow-rue
			Grasses sp.
			White Avens
			May-apple

Censused on July 1/76

LIST OF PLANTS

* denotes species known to occur in Redhill Creek Valley, but not found on a plot.

A - Alien. Species not native to Canada (usually of European descent) or native species introduced into the valley (eg. Red Pine, Tamarack, in reforestation plantings).

Status: C Common

U Unusual plants listed by Ecologists in Regional Study and by others.

R Rare plants listed in Argus & White, 1975,
A Preliminary List of Rare Plants in Ontario (Ottawa)

Nomenclature, taxonomy, and listing order for Trees and Shrubs follows Petrides, 1972, A Field Guide to Trees and Shrubs.

Nomenclature and taxonomy for Flowering Plants follows Peterson & McKenny, A Field Guide to Wildflowers. Order for listing is as they appear in the Plot Sheets.

<u>TREES</u>		<u>Status</u>
White Pine	(<i>Pinus strobus</i>)	C
A Red Pine	(<i>Pinus resinosa</i>)	C
A Jack Pine	(<i>Pinus banksiana</i>)	C
A Tamarack	(<i>Larix laricina</i>)	U
Eastern Hemlock	(<i>Tsuga canadensis</i>)	C
A Norway Spruce	(<i>Picea abies</i>)	C
A White Spruce	(<i>Picea glauca</i>)	C
A Northern White Cedar	(<i>Thuja occidentalis</i>)	C
White Ash	(<i>Fraxinus americana</i>)	C
Black Ash	(<i>Fraxinus nigra</i>)	C
Ashleaf Maple	(<i>Acer negundo</i>)	C
A Horsechestnut	(<i>Aescula hippocastanum</i>)	C
Flowering Dogwood	(<i>Cornus florida</i>)	R
Mountain Maple	(<i>Acer spicatum</i>)	C
Red Maple	(<i>Acer rubrum</i>)	C
Silver Maple	(<i>Acer saccharinum</i>)	C
Sugar Maple	(<i>Acer saccharum</i>)	C
Honey Locust	(<i>Gleditsia triacanthos</i>)	C
Black Locust	(<i>Robinia pseudo-acacia</i>)	C
Black Walnut	(<i>Juglans nigra</i>)	R
Shagbark Hickory	(<i>Carya ovata</i>)	C
Native Crabapple	(<i>Pyrus coronaria</i>)	U
Hawthorns sp.	(<i>Crataegus spp.</i>)	C
Sycamore	(<i>Platanus occidentalis</i>)	U
American Basswood	(<i>Tilia americana</i>)	C
A White Mulberry	(<i>Morus alba</i>)	C
Bigtooth Aspen	(<i>Populus grandidentata</i>)	C
Common Cottonwood	(<i>Populus deltoides</i>)	C
Quaking Aspen	(<i>Populus tremuloides</i>)	C
White Oak	(<i>Quercus alba</i>)	C
Bur Oak	(<i>Quercus macrocarpa</i>)	C
Red Oak	(<i>Quercus rubra</i>)	C

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AREA No. 25

<u>TREES</u>		<u>Status</u>
American Elm	(<i>Ulmus americana</i>)	C
Slippery Elm	(<i>Ulmus rubra</i>)	C
Hornbeam	(<i>Ostrya virginiana</i>)	C
American White Birch	(<i>Betula papyrifera</i>)	C
Yellow Birch	(<i>Betula lutea</i>)	C
Black Cherry	(<i>Prunus serotina</i>)	C
A Sweet Cherry	(<i>Prunus avium</i>)	C
Black Willow	(<i>Salix nigra</i>)	C
Beech	(<i>Fagus grandifolia</i>)	C
A Domestic Apple	(<i>Pyrus malus</i>)	C
A Domestic Pear	(<i>Pyrus communis</i>)	C
 <u>SHRUBS</u>		
Bladdernut	(<i>Staphylea trifolia</i>)	U
Common Elderberry	(<i>Sambucus canadensis</i>)	C
Red Elderberry	(<i>Sambucus pubens</i>)	C
Running Strawberry bush	(<i>Euonymus obovatus</i>)	C
A Tartarian Honeysuckle	(<i>Lonicera tatarica</i>)	C
Roundleaf Dogwood	(<i>Cornus drummondii</i>)	C
Red-Osier Dogwood	(<i>Cornus stolonifera</i>)	C
Alternate-leaf Dogwood	(<i>Cornus alternifolia</i>)	C
A Gray Dogwood	(<i>Cornus racemosa</i>)	C
A Common lilac	(<i>Syringa vulgaris</i>)	C
Mapleleaf Viburnum	(<i>Viburnum acerifolium</i>)	C
Red Raspberry	(<i>Rubus idaeus</i>)	C
Black Raspberry	(<i>Rubus occidentalis</i>)	C
Blackberries sp.	(<i>Rubus spp.</i>)	C
A Multiflora Rose	(<i>Rosa multiflora</i>)	C
Northern prickly-ash	(<i>Xanthoxylum americanum</i>)	C
Poison-ivy	(<i>Rhus radicans</i>)	C
Staghorn Sumac	(<i>Rhus typhina</i>)	C
Smooth Sumac	(<i>Rhus glabra</i>)	U
Virginia Creeper	(<i>Parthenocissus quinquefolia</i>)	C
Willows	(<i>Salix spp.</i>)	C
Wild Grape	(<i>Vitis spp.</i>)	C
Bristly Black Currant	(<i>Ribes lacustre</i>)	C
Pasture Gooseberry	(<i>Ribes cynosbati</i>)	C
A European Gooseberry	(<i>Ribes grossularia</i>)	C
Goldern Currant	(<i>Ribes odoratum</i>)	C
Flowering Raspberry	(<i>Rubus odoratum</i>)	C
Choke Cherry	(<i>Prunus virginiana</i>)	C
Common Hazelnut	(<i>Corylus americana</i>)	C
* Northern Bush Honeysuckle	(<i>Diervilla lonicera</i>)	C
* Shortstalk Arrowwood	(<i>Viburnum rafinesquianum</i>)	C
* Canada Buffaloberry	(<i>Shepherdia canadensis</i>)	C
* Snowberry	(<i>Symphoricarpos albus</i>)	C
 <u>PLANTS (non flowering)</u>		
* Club Moss	(<i>Lycopodium spp.</i>)	C
Mosses	(<i>Musci spp.</i>)	C
Horsetails	(<i>Equisetum spp.</i>)	C
Lady Fern	(<i>Athyrium Filix-femina</i>)	C
Sensitive Fern	(<i>Onoclea Sensibilis</i>)	C
* Ostrich Fern	(<i>Matteuccia Struthiopteris</i>)	C
* Marsh Fern	(<i>Thelypteris palustris</i>)	C
* Marginal Woodfern	(<i>Dryopteris marginalis</i>)	C
* Ground Cedar	(<i>Lycopodium complanatum</i>)	U

PLANTS (flowering)	Status
Herb-robert	(<i>Geranium robertianum</i>)
Woodland Jack-in-the-Pulpit	(<i>Arisaema atrorubens</i>)
White Trillium	(<i>Trillium grandiflorum</i>)
Early Meadow-rue	(<i>Thalictrum dioicum</i>)
May-apple	(<i>Podophyllum peltatum</i>)
Virginia Waterleaf	(<i>Hydrophyllum virginianum</i>)
False Solomon's Seal	(<i>Smilacina racemosa</i>)
Common Strawberry	(<i>Fragaria virginiana</i>)
Cleavers	(<i>Galium aparine</i>)
Wild Lily-of-the-valley	(<i>Maianthemum canadense</i>)
Canada Violet	(<i>Viola canadensis</i>)
A Winter Cress	(<i>Barbarea vulgaris</i>)
A Common Plantain	(<i>Plantago major</i>)
Wild Geranium	(<i>Geranium maculatum</i>)
Grasses	(<i>Gramineae</i> spp.)
A Black Medick	(<i>Medicago lupulina</i>)
Goldenrods	(<i>Solidago</i> spp.)
A Wild Carrot	(<i>Daucus carota</i>)
A Dame's rockets	(<i>Hesperis matronalis</i>)
A Burdock	(<i>Arctium</i> spp.)
Common Blue Violet	(<i>Viola papilionacea</i>)
A Celandine	(<i>Chelidonium majus</i>)
Jewelweed	(<i>Impatiens capensis</i>)
White Baneberry	(<i>Actaea pachypoda</i>)
A Nightshade	(<i>Solanum dulcamara</i>)
Wild Ginger	(<i>Asarum canadense</i>)
Sharp-lobed Hepatica	(<i>Hepatica acutiloba</i>)
A Red Clover	(<i>Trifolium pratense</i>)
A White Clover	(<i>Trifolium repens</i>)
A King Devil	(<i>Hieracium pratense</i>)
A Orange Hawkweed	(<i>Hieracium aurantiacum</i>)
A Teasel	(<i>Dipsacus sylvestris</i>)
A Common Buttercup	(<i>Ranunculus acris</i>)
Columbine	(<i>Aquilegia canadensis</i>)
Purslane Speedwell	(<i>Veronica peregrine</i>)
Bloodroot	(<i>Sanguinaria canadensis</i>)
Blue Phlox	(<i>Phlox divaricata</i>)
Canada Anemone	(<i>Anemone canadensis</i>)
Foamflower	(<i>Tiarella cordifolia</i>)
Narrow-leaved Cattail	(<i>Typha angustifolia</i>)
A Watercress	(<i>Nasturtium officinale</i>)
Forget-me-not	(<i>Myosotis</i> spp.)
Common Fleabane	(<i>Erigeron philadelphicus</i>)
A Great Burdock	(<i>Arctium lappa</i>)
A Wood Strawberry	(<i>Fragaria vesca</i>)
A Evening Lychnis	(<i>Lychnis alba</i>)
Water Plantain	(<i>Alisma triviale</i>)
A Ox-eye Daisy	(<i>Chrysanthemum leucanthemum</i>)
White Avens	(<i>Geum canadense</i>)
Enchanter's Nightshade	(<i>Circaea quadrisculcata</i>)
A Yellow Sweet Clover	(<i>Melilotus officinalis</i>)
Cow Vetch	(<i>Vicia cracca</i>)
A Viper's Bugloss	(<i>Echium vulgare</i>)
A Rough-fruited Cinquefoil	(<i>Potentilla recta</i>)
Common Milkweed	(<i>Asclepias syriaca</i>)
A Field Pennycress	(<i>Thaspi arvense</i>)
A Common St. John's Wort	(<i>Hypericum perforatum</i>)
A Curled Dock	(<i>Rumex crispus</i>)
A Common Dandelion	(<i>Taraxacum officinale</i>)
A Smaller Hop Clover	(<i>Trifolium procumbens</i>)

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AREA NO. 25

A Morning Glory	(<i>Ipomoea</i> spp.)	C
A Yellow Wood Sorrel	(<i>Oxalis stricta</i>)	C
Wild Lettuce	(<i>Lactuca canadensis</i>)	C
A Motherwort	(<i>Leonurus cardiaca</i>)	C
A Moneywort	(<i>Lysimachia nummularia</i>)	C
A Thistles	(<i>Cirsium</i> spp.)	C
A Black Mustard	(<i>Brassica nigra</i>)	C
Honewort	(<i>Cryptotaenia canadensis</i>)	U
Cow Parsnip	(<i>Heracleum maximum</i>)	U
Spotted St. John's Wort	(<i>Hypericum punctatum</i>)	C
Intermediate Dogbane	(<i>Apocynum medium</i>)	C
A Common Morning Glory	(<i>Ipomoea purpurea</i>)	C
A Ivy-leaved Morning Glory	(<i>Ipomoea hederacea</i>)	C
A Stinging Nettle	(<i>Urtica dioica</i>)	C
Water Pennywort	(<i>Hydrocotyle americana</i>)	U
Schreber's Aster	(<i>Aster shreberi</i>)	U
A Creeping Bellflower	(<i>Campanula rapunculoides</i>)	C
A Deptford Pink	(<i>Dianthus armeria</i>)	C
Agrimony	(<i>Agrimonia</i> spp.)	C
* Daisy Fleabane	(<i>Erigeron strigosus</i>)	C
* Pokeweed	(<i>Phytolacca americana</i>)	U
* Asters	- below Albion Falls A-6 (<i>Chrysopsis</i> spp.)	C
*A Lesser Stitchwort	(<i>Stellaria graminea</i>)	U
* Four-sided Vetch	(<i>Vicia tetrasperma</i>)	U
*A Spring Vetch	(<i>Vicia sativa</i>)	U
* Great Lobelia	(<i>Lobelia siphilitica</i>)	U
* Green Violet	(<i>Hybanthus concolor</i>)	R
below Albion & Buttermilk Falls A6, A9		
* Smooth Rock cress	(<i>Arabis canadensis</i>)	C
* Yellow Pimpernel	(<i>Taenidia integerrima</i>)	C
* Broad-leaved waterleaf	(<i>Hydrophyllum canadense</i>)	C
* Large-flowered Bellwort	(<i>Uvularia grandiflora</i>)	C
* Long-spurred Violet	(<i>Viola rostrata</i>)	U
* Wood Anemone	(<i>Anemone quinquefoilia</i>)	C
* Miterwort	(<i>Mitella diphylla</i>)	C
* Small-flowered Leafcut	(<i>Polymnia canadensis</i>)	R
- below Mt. Albion A6		
* Shinleaf	(<i>Pyrola elliptica</i>)	U
*A Night-flowering Catchfly	(<i>Silene noctiflora</i>)	U
- between Kings Forest & Mt. Albion Road		
* Sweet Cicely	(<i>Osmorhiza claytoni</i>)	C
* Anise-root	(<i>Osmorhiza longistylis</i>)	U
- Kings Forest		
*A Wild Madder	(<i>Galium mollugo</i>)	C
*A Crpine	(<i>Sedum telephium</i>)	C
* Wild Basil	(<i>Satureja vulgaris</i>)	C
*A Yellow Goat's-beard	(<i>Tragopogon pratensis</i>)	C
* Pointed-leaved Tick-Trefoil	(<i>Desmodium glutinosum</i>)	U
* Comfrey	(<i>Symphytum officinale</i>)	C
*A Hound's-tongue	(<i>Cynoglossum officinale</i>)	C
* Yellow Avens	(<i>Geum aleppicum</i> var. <i>strictum</i>)	C
* Common Speedwell	(<i>Veronica officinalis</i>)	C
* Lopseed	(<i>Phryma leptostachya</i>)	C
* Michigan Lily	(<i>Lilium michiganense</i>)	U
* Carrion-flower	(<i>Smilax herbacea</i>)	U
* Hairy Bush-clover	(<i>Lespedeza hirta</i>)	U
* Wandlike Bush-clover	(<i>Lespedeza intermedia</i>)	U

BIRDS

Besides the breeding species listed below, over 100 additional species occur in the Redhill Creek Valley as spring and fall migrants and winter residents.

Some of the species listed below were not observed on a plot but are known to breed in the Redhill Creek Valley.

One species, Long-eared Owl, is rare, being only one of five breeding locations in the region. It nests in Plot A5 but was not found when the plot was censused.

The numbers in the chart refer to breeding pairs found on the plot. Circled numbers refer to birds which breed in the valley but not on the plot where they were observed.

'A' PLOTS

'B' PLOTS

	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10
Mallard																					
Red-tailed Hawk																					
American Kestrel																					
Ring-necked Pheasant	1				1							1						1	1		1
Green Heron																					
Killdeer												1				1	1				
Spotted Sandpiper		1				1						1				1				1	
American Woodcock																					
Rock Dove																					
Mourning Dove																					
Yellow-billed Cuckoo						1					1										
Black-billed Cuckoo																					
Screech Owl																					
Great-horned Owl																					
Long-eared Owl																					
Common Nighthawk																					
Chimney Swift						⑤			③			①						①			
Ruby-throated Hummingbird																					
Belted Kingfisher																①	①				
Yellow-shafted Flicker	1		1				1		1				1		1	1		2	1		1
Hairy Woodpecker									1												
Downy Woodpecker						1			1					1							1
Eastern Kingbird						1		1					1					1			1
Great-crested Flycatcher			1			1	1				1						1				1
Eastern Phoebe																					
Willow Flycatcher									1												1
Eastern Wood Pewee	1		1		1	1	1	1		1	1										
Barn Swallow					⑤															①	
Rough-winged Swallow					4					4											
Bank Swallow																					
Purple Martin					1										①	①	①				
Blue Jay		1			1					1	1	1		1	1		1				1
Common Crow	1					1	1							1							
Black-capped Chickadee									1					2							
White-Breasted Nuthatch																					
House Wren					1													1	1		1
Northern Mockingbird																					
Gray Catbird	1	2	1			2		1		1	1	2	2	2		1	2	3	1	2	
Brown Thrasher								1													1
American Robin			1					1					1			2	2	2	1	1	
Wood Thrush			1								2										

BIRDS (Con.)

"A" PLOTS

"B" PLOTS

	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10
Cedar Waxwing	1				1							1				1				1	
Starling	2				1	1						2			1	1	1	1		2	
Red-eyed Vireo	2	3		2	1			1	1	2		1				1				1	
Warbling Vireo															1	2	1				
Yellow Warbler					1		2										1				
Ovenbird																	1				
Yellowthroat																					
American Redstart			1		1																
House Sparrow																		1			
Bobolink																					
Eastern Meadowlark												1									
Red-winged Blackbird		1	1		2	1		3				1	1		2	3	3	3			
Common Grackle	4+	1		6	1			1				3				2	3	1	1	2	
Brown-headed Cowbird																	1				
Northern Oriole	2	2	1				1			1		1	2	1		1	1	3	1	1	
Scarlet Tanager								1													
Cardinal	2	1	1			1				1		1			1	1	1	2		1	
Rose-breasted Grosbeak											1										
Indigo Bunting	1	1	4	1	2	1	2	1	2	1	1	1	1	2		1		2	2	1	1
American Goldfinch					2	1						1	1		1		2	2	2		
Rufous-sided Towhee	1				1																
Savannah Sparrow																					
Chipping Sparrow																	1				
Field Sparrow																1				1	
Song Sparrow		1	1			1	2					3	1			1	2	2	2		

TOTALS: "A" Plots: 36 "B" Plots: 38
All Plots: 47

MAMMALS

Obviously, the following list is incomplete owing to the secretive nature and nocturnal habits of most mammals. Undoubtedly Striped Skunk occurs and could be added.

One species, the Prairie Deer Mouse (*Peromyscus maniculatus bairdii*) is known from only one other locality in Hamilton - Wentworth Region: Mt. Albion which is also in Sensitive Area #25 (Redhill Creek).

The Shrew observed may have been the Smokey Shrew (*Sorex fumeus fumeus*) which is rare and has been found at Buttermilk Falls (A9) in the past.

"A" PLOTS

"B" PLOTS

	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10
Shrew											X										
Eastern Cottontail				X																	
Eastern Chipmunk	X	X			X																
Woodchuck (Groundhog)						X	X									X					
Gray or Black Squirrel	X				X		X					X	X					X	X		
Red Squirrel				X	X																
Prairie Deer Mouse																				X	
Muskrat												X									
Raccoon	X				X																

REPTILES AND AMPHIBIANS

Again, the following list is probably incomplete owing to retiring habits of Reptiles and Amphibians. Other species known from the Redhill Creek Valley are: Pickerel Frog (rare), Northern Water Snake (rare), Northern Ribbon Snake (rare) and Garter Snake (common).

	"A" PLOTS											"B" PLOTS									
	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10
Red-backed Salamander						x				x											
Northern Leopard Frog								x													
American Toad								x								x		x			
Brown Snake																			x		



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Area 10

Section 10

Section 10

Section 10

Section 10

Section 10

Section 10

Section 10

Section 10	

Section 10